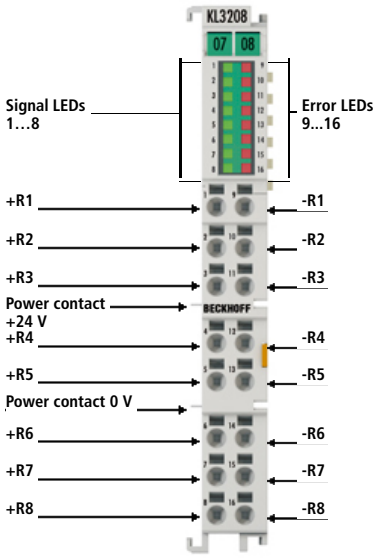
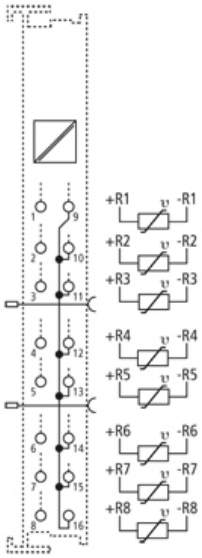
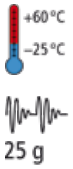


Top view



Contact assembly



KL3208-0010 | HD Bus Terminal, 8-channel input terminal PT1000, Ni1000 (RTD); NTC sensors, potentiometers

The KL3208-0010 analog input terminal enables connection of eight resistance sensors. The Bus Terminal's circuitry can handle sensors using the 2-wire technique. Linearisation over the full temperature range is realised with the aid of a microprocessor. The temperature range can be selected freely. The Bus Terminal's standard settings are: resolution 0.01 °C within the temperature range of PT/Ni1000 sensors. The error LEDs indicate sensor faults (e.g. a broken wire).

The HD Bus Terminals (High Density) with increased packing density feature 16 connection points in the housing of a 12 mm terminal block.

Technical data	KL3208-0010
Number of inputs	8
Power supply	via the K-bus
Technology	2-wire
Sensor types	PT1000 (default), Ni1000, potentiometer 1/5/10 kΩ, NTC 1.8 k/2.2 k/3 k/5 k/10 k/20 k/100 k
Connection method	2-wire
Measuring range	-50…+150 °C (depending on sensor type)
Conversion time	~ 1 s
Measuring current	typ. < 0.5 mA
Resolution	0.01 °C per digit
Measuring error	-20…+60 °C: ±0.25 °C at 25 °C ambient temperature; -50…+150 °C: ±1.5 °C (for PT/Ni sensors)
Electrical isolation	500 V (K-bus/signal voltage)
Current consumption power contacts	–
Current consumption K-bus	typ. 85 mA
Bit width in the process image	input: 8 x 16 bit data (8 x 8 bit control/status optional)
Configuration	no address setting, configuration via Bus Coupler or controller
Conductor types	solid wire, stranded wire and ferrule
Conductor connection	solid wire conductors: direct plug-in technique; stranded wire conductors and ferrules: spring actuation by screwdriver
Rated cross-section	solid wire: 0.08…1.5 mm²; stranded wire: 0.25…1.5 mm²; ferrule: 0.14…0.75 mm²
Special features	open-circuit recognition, cable resistance calibration, particularly suitable for building automation
Weight	approx. 75 g
Operating/storage temperature	-25…+60 °C/-40…+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Approvals/markings	CE, UL, ATEX
Ex-Marking	II 3 G Ex nA IIC T4 Gc

We reserve the right to make technical changes.